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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/090,776

03/06/2002

Michael Belscher

95-477

7174

23164

7590

02/23/2006

LEON R TURKEVICH

2000 M STREET NW

7TH FLOOR

WASHINGTON, DC 200363307

EXAMINER

DYKE, KERRI M

ART UNIT

PAPER NUMBER

2667

DATE MAILED: 02/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/090,776	Applicant(s) BELSCHER ET AL.	
	Examiner Kerri M. Dyke	Art Unit 2667	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely-filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 March 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>6/6/02</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5, 8-15, 18-25, 28-35, and 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dorsey et al. (US 2001/0033580) in view of applicant admitted prior art (AAPA).

3. In regards to claim 1, Dorsey discloses a method in a router configured for establishing an Internet Protocol (IP) connection, the method comprising:

- a. receiving a bisync protocol data frame carrying bisync protocol fields and Base-24 protocol data from an automated banking device via a serial connection;
- b. generating a new frame by generating a new header specifying attributes of the Base-24 protocol data and the automated banking device, removing the bisync header, and adding the new header to the Base-24 protocol data; and
- c. outputting the new frame, having the new header and the Base-24 protocol data, to an identified host server via the IP connection.

Dorsey discloses a general method of translating from any first protocol to any second protocol in paragraph 10. Therefore the method of Dorsey is inherently capable of dealing with the situation where bisync is the first protocol and IP is the second. Figures 2 and 5 illustrate the translation method. Paragraph 39 specifies a first protocol packet is received, a new packet with

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a new header is created and the old header discarded, and the new packet is output to the second network. Paragraphs 40-46 provide further detail for the translation process. Figure 5 describes an expanded, multiprotocol embodiment of the method disclosed by figure 2. The description is in paragraphs 56-72.

Dorsey does not disclose the first protocol packet is received from an automated banking device via a serial connection.

Figure 1 of the instant application, which applicant admits to be known, discloses receiving packets from an automated banking device via a serial connection.

Dorsey does not place limitations upon the source of the packets to the translation device. It would have been obvious to one of ordinary skill in the art to modify Dorsey's protocol translator in order to accept packets serially from an automated banking device because there is a need for a scalable translation between the packets sent by the automated banking device and the IP network and Dorsey discloses scalability, along with several other benefits of the translation method, in paragraph 38.

4. In regards to claim 2, Dorsey and AAPA disclose the method of claim 1, further comprising: second receiving via the IP connection a second frame having host-based Base-24 protocol data and a host-based header specifying attributes of the host-based Base-24 protocol data; second generating a new bisync protocol data frame; and second outputting the new bisync protocol data frame to the automated banking device via the serial connection. Paragraphs 49-51 disclose several ways to allow for bidirectional traffic through the translator.

5. In regards to claim 3, Dorsey and AAPA disclose the method of claim 2, wherein the second generating step includes generating new bisync protocol fields based on the host-based

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header, removing the host-based header, and adding the new bisync protocol fields to the host-based Base-24 protocol data. Paragraphs 39-46 disclose the packet translation process, which includes removing the original header and replacing it with a header conforming to the new protocol.

6. In regards to claim 4, Dorsey and AAPA disclose the method of claim 3, wherein the step of generating new bisync protocol fields includes: determining a transparency mode for the automated banking device and a data type; and generating selected bisync data for the new bisync protocol fields based on the determined transparency mode and data type. Paragraphs 46 and 58 disclose determining error correction fields. Transparency mode is an error correction field and therefore can be determined using the method disclosed by Dorsey. The example shown in figure 7 and described in paragraphs 74-75 discloses determining a data type.

7. In regards to claim 5, Dorsey and AAPA disclose the method of claim 4, wherein the determining step includes: first determining whether the transparency mode is one of transparent mode and non-transparent mode; and second determining whether the data type is one of ASCII text and Extended Binary Coded Decimal Interchange Code (EBCDIC) text. Paragraphs 46 and 58 disclose determining error correction fields. Transparency mode, (i.e. transparent or nontransparent) is an error correction field and therefore can be determined using the method disclosed by Dorsey. The example shown in figure 7 and described in paragraphs 74-75 discloses determining a data type. Dorsey's translator is capable of determining the necessary parameters for any protocol. Determining whether the data type is ASCII or EBCDIC is necessary for conversion to the bisync protocol and therefore Dorsey's method is inherently capable of determining it.

8. In regards to claim 8, Dorsey and AAPA disclose the method of claim 1, wherein the generating step includes specifying status /sense information for the automated banking device within the new header. Paragraph 56 indicates that the new header can be comprised of information taken from the original header held in memory 53a and new information from FIFOs 54 and 55. Paragraph 58 further reinforces the fact that the FIFO information can be used to supplement and not wholly replace the original header information in 53a. Page 3 lines 12-16 of the instant applicant admits that legacy systems include status information. It would have been obvious to one of ordinary skill in the art to maintain the status information, which Dorsey's method is capable of doing, because the status information provides useful information such as indicating that a device is in need of user intervention.

9. In regards to claim 9, Dorsey and AAPA disclose the method of claim 8, further comprising sending a message, according to SNMP protocol, to a network management server that specifies the status / sense information for the automated banking device. As mentioned in the rejection of claim 8, it is advantageous to specify status information for the device because doing so allows for speedy user intervention if necessary. Official notice is taken that it would have been obvious to one of ordinary skill in the art to use SNMP protocol to send a message regarding the status of the device to a management server because SNMP is a standard protocol, described in RFC 1157, designed for the express purpose of communicating network management information, such as status information. Furthermore, SNMP has been designated a full "Standards Protocol" with "Recommended" status, which means all managed TCP/IP networks are expected to comply with SNMP.

10. In regards to claim 10, Dorsey and AAPA disclose the method of claim 9, further comprising sending a second message, according to SNMP protocol, to the network management server based on a detected change in at least one of a status of the automated banking device, and a detected change in the IP connection. SNMP protocol works by continuously monitoring a network using polling. It is therefore inherent that a change would be detected and reported to the connection upon polling of the device after the change takes place.

11. Claim 11 discloses a router with a serial interface, a bisync to IP resource, and IP interface. The router is able to accomplish the method of claim 1. Paragraph 39 discloses that the network interfaces of the translator can be part of a router. Figures 2 and 5 disclose that the translator can operate to translate from any protocol to any other protocol. It is therefore inherent that the interface is able to accept the information in a serial format, as from the bisync, and output it in an IP format. Within the translator there must be a resource capable of translating from bisync to IP. Paragraph 62 discloses a memory 51a that includes all the instructions necessary to complete a translation. Additionally, applicant discloses in figure 1 that it is known to use a router with the recited structural limitations.

12. Claims 12-15 and 18-20 correspond to claims 2-5 and 8-10 and are rejected upon the same grounds of rejection.

13. Claim 21 discloses a computer readable medium having instructions thereon to carry out the translation method of claim 1. Paragraph 62 discloses a memory, 51a, containing all the instructions for carrying out the translation method. A memory is a computer readable medium.

14. Claims 22-25 and 28-30 correspond to claims 2-5 and 8-10 and are rejected upon the same grounds of rejection.

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15. Claim 31 is a means plus function format of the same router in claim 21. The means are disclosed on page 6 lines 10-16. The means are a serial interface, a bisync to IP resource, and an IP interface. These are the same limitations disclosed in claim 21 and therefore claim 31 is rejected upon the same grounds of rejection.

16. Claims 32-35 and 38-40 correspond to claims 2-5 and 8-10 and are rejected upon the same grounds of rejection.

17. Claims 6-7, 16-17, 26-27, and 36-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dorsey et al. (US 2001/0033580) in view of applicant admitted prior art (AAPA) further in view of Perreault et al. (US 5,793,307).

18. In regards to claim 6, Dorsey and AAPA disclose the method of claim 2, further comprising outputting a poll request to the automated banking device via the serial connection. Due to the nature of the invention disclosed by Dorsey any message or request received at the translator will be translated and passed along to the automated banking device via the serial connection. Figure 1 of AAPA discloses a polling state machine. Dorsey does not disclose further comprising:

- d. third receiving via the IP connection a third frame specifying a connection attempt for the identified host server via a prescribed Transmission Control Protocol (TCP) port;
- e. determining whether a poll response is received via the serial connection from the automated banking device; and

- f. generating and outputting via the IP connection a device active status frame, based on whether the poll response is received, indicating whether the host can send the second frame.

Figures 5A, 5B, and 6 with corresponding column 8 line 63 – column 9 line 47 disclose a connection attempt from the host via a port. It is then determined if a response to the poll is received and based upon the response the host determines if the device is active for communication, inactive, or idle.

It would have been obvious to one of ordinary skill in the art to modify Dorsey's translation method to include Perreault's polling because doing so makes the method more efficient because time is not wasted waiting repeatedly attempting to communicate with and waiting for responses from inactive stations, as taught by Perreault in column 3 lines 16-43.

19. In regards to claim 7, Dorsey and Perreault disclose the method of claim 6, further comprising sending a message to the identified host server in response to determining an inactive status for the automated banking device. Column 8 lines 48-53 of Perreault disclose databases for maintaining a list of active, inactive, and idle devices. Figures 5A, 5B, and 6 disclose how the lists are updated by the host server.

20. Claims 16, 17, 26, 27, 36, and 37 correspond to claims 6 and 7 and are therefore rejected upon the same grounds of rejection.

Conclusion

21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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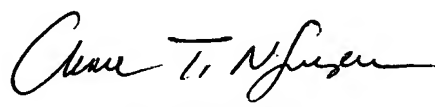
- g. Turner discloses a method of converting a packet from a source format to a target format in order to comply with memory storage requirements.
- h. Yamashita and Miura disclose methods for converting ATM cells to a new format.
- i. Volftsun discloses a universal translation in relation to telephony.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kerri M. Dyke whose telephone number is (571) 272-0542. The examiner can normally be reached on Monday through Friday, 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

kmd


CHAU NGUYEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600